Author Index

AGEMATSU K. *see* YANG F.C.
AHLBORG N., ANDERSSON R., PERLMANN P. & BERZINS K. Immune responses in congenic mice to multiple antigen peptides based on defined epitopes from the malaria antigen Pf332, 630
AHLFORS A. *see* ERIKSSON K.
AKBAR A.N. *see* BORTHWICK N.J.
ALTIN J.G. *see* OLSEN H.M.
AMENDOLA A. *see* POCCIA F.
ANDERSSON R. *see* AHLBORG N.
ANZAI R., SEKI S., OGASAWARA K., HASHIMOTO W., SUGIURA K., SATO M., KUMAGAI K. & TAKEDA K. Interleukin-12 induces cytotoxic NK1$^+$ $\alpha\beta$ T cells in the lungs of euthymic and athymic mice, 82
ARYA A. *see* HARRIS D.P.
ASANO M., KOHANAWA M., MINAGAWA T. & NAKANE A. Reciprocal action of interferon-γ and interleukin-4 promotes granulomatos inflammation induced by *Rhodococcus aurantiacus* in mice, 394
ASHMAN L.K. *see* GEARY S.M.
ATTARDO L. *see* FOX J.G.
AUBRY J.-P. *see* HENCHOZ-LECOANET S.
AVRAMEAS S. *see* CUKROWSKA B.
AYER L. *see* ISSEKUTZ A.C.

BACH S. *see* POCCIA F.
BAILEY M. *see* WILSON A.D.
BALDWIN C.L. *see* HANBY-FLARIDA M.D.
BAROT-CIORBARU R. *see* CUKROWSKA B.
BARTHOLOMEW M. *see* HALE C.
BAXTER G. *see* BRETT S.
BEAGLEY K.W. *see* WU H.-Y.
BEALE D. *see* SOHI M.K.
BELL E.B. *see* HOLMES B.J.
BELL J.I. *see* DAVENPORT M.P.
BELOBORODOV V.B. *see* WÜRZNER R.
BENOT J.-M. *see* BOURRIÉ B.
BERQUIST J. *see* JOSEFSSON E.
BERZINS K. *see* AHLBORG N.
BICE D.E. & MUGGENBURG B.A. Pulmonary immune memory: localized production of antibody in the lung after antigen challenge, 191
BLAND P.W. *see* WILSON A.D.
BLOM T. *see* NILSSON G.
BOFILL M. *see* BORTHWICK N.J.
BOGDAN K. *see* HARRIS D.P.
BOLOGNA G. *see* FAGNONI F.F.
BONNEFOY J.-Y. *see* HENCHOZ-LECOANET S.
BOR B. *see* OTTEN H.G.
BORTHWICK N.J., BOFILL M., HASSAN I., PANAYIOTIDIS P., JANOSSY G., SALMON M. & AKBAR A.N. Factors that influence activated CD8$^+$ T-cell apoptosis in patients with acute herpesvirus infections: loss of costimulatory molecules CD28, CD5 and CD6 but relative maintenance of Bax and Bcl-X expression, 508
BOTT C.M. *see* SINGER N.G.
BOURRIÉ B., BENOÎT J.-M., DEROCQ J.-M., ESCLANGON M., THOMAS C., LE FUR G. & CASELLAS P. A sigma ligand, SR 31747A, potently modulates Staphylococcal enterotoxin B-induced cytokine production in mice, 389
BRADLEY K., NORTH J., SAUNDERS D., SCHWAEBLE W., JEZIORSKA M., WOOLLEY D.E. & WHALEY K. Synthesis of classical pathway complement components by chondrocytes, 648
BRADSHAW C.G. *see* HENCHOZ-LECOANET S.
BRETT S., BAXTER G., COOPER H., JOHNSTON J.M., TITE J. & RAPSON N. Repopulation of blood lymphocyte sub-populations in rheumatoid arthritis patients treated with the depleting humanized monoclonal antibody, CAMPATH-1H, 13
BRICKELL P.M. *see* GEORGIADES P.
BROOK M.A. *see* HERITAGE P.L.
BROWNLIE J. *see* HOWARD C.J.
BRÜGGEMAN M. *see* HARMER I.J.
BRUNNER M.C. & MITCHISON N.A. Regulation by non-major histocompatibility complex genes of the allo-4-hydroxy-phenylpyruvate dioxygenase (F liver protein) response, 452
BUCHAN G. *see* HOOK S.
BUTLER J.E. *see* SUN J.
BYUN D.G. *see* DEMEURE C.E.

CAHILL R.N.P., KIMPTON W.G., WASHINGTON E.A., DUDLER L. & TRNKA Z. Late-term fetal thymectomy does not prevent the development of gut-homing T cells after birth, 130
CASELLAS P. *see* BOURRIÉ B.
CASTEELS-VAN DAELE M. *see* KRUGER M.
CEUPPENS J.L. *see* KRUGER M.
CHAPMAN H.A. *see* WONG W.S.F.
CHARLES P. *see* HARMER I.J.
CHU C.Q. *see* TAYLOR P.C.
CHUNG K.F. *see* HACZKU A.
CLAESSEN A.M.E., VON BLOMBERG B.M.E., DE GROOT J., WOLVERS D.A.E., KRAAL G. & SCHEPER R.J. Reversal of mucosal tolerance by subcutaneous administration of interleukin-12 at the site of the attempted sensitization, 363
COE J.E. & PRINCE G.A. Definition of cotton rat immunoglobulins: sigmodon species differ in expression of IgG isotypes and production of respiratory syncytial virus antibody, 323
COLIZZI V. *see* POCCIA F.
COLLINS R.A. *see* HOWARD C.J.
COOK J.R. *see* HOCKETT R.D.
COOK R.S. *see* GADDUM R.M.
COOPER H. *see* BRETT S.
COOREVITS L. *see* KRUGER M.
CORPER A.L. *see* SOHI M.K.
CRYSTAL R.G. *see* SILVER R.F.
CUKROWSKA B., ŠINKORA J., ŘEHÁKOVÁ Z., ŠINKORA M., ŠPLÍCHAL I., TUČKOVÁ L., AVRAMEAS S., SAALMÜLLER A., BAROT-CIORBARU R. & TLASKALOVÁ-HOGENOVÁ H. Isotype and antibody specificity of spontaneously formed immunoglobulins in pig fetuses and germ-free piglets: production by CD5$^-$ B cells, 611
CURRIE J. *see* DICK S.
CZERINSKY C. *see* ERIKSSON K.

DAHA M.R. *see* DRENTH J.P.H.
DAMAIS C. *see* DUGAS N.
DANDEU J.-P. *see* GOUBRAN BOTROS C.
DAVENPORT M.P., QUINN C.L., VALSASNINI P., SINIGAGLIA F., HILL A.V.S. & BELL J.I. Analysis of peptide binding motifs for two disease associated HLA-DR13 alleles using an M13 phage display library, 482
DAVID B. *see* GOUBRAN BOTROS C.
DE BOER M. *see* OTTEN H.G.
DE GAST G.C. *see* OTTEN H.G.
DE GROOT J. *see* CLAESSEN A.M.E.
DECARIE D. *see* LAMONTAGNE L.
DELESPESSE G. *see* DEMEURE C.E.
DELFRAISS J.F. *see* DUGAS N.

DEMEURE C.E., BYUN D.G., YANG L.P., VEZZIO N. & DELESPESSE G. CD31 (PECAM-1) is a differentiation antigen lost during human CD4 T-cell maturation into Th1 or Th2 effector cells, 110
DENHARDT D.T. *see* ROLLO E.E.
DEROCG J.-M. *see* BOURRIÉ B.
DEVINE L., LIGHTMAN S.L. & GREENWOOD J. Role of LFA-1, ICAM-1,VLA-4 and VCAM-1 in lymphocyte migration across retinal pigment monolayers *in vitro*, 456
DIAZ-SANCHEZ D. *see* HOLMES B.J.
DICK S., WATERFALL M., CURRIE J., MADDY A. & RILEY E. Naive human $\alpha\beta$ T cells respond to membrane-associated components of malaria-infected erythrocytes by proliferation and production of interferon-γ, 412
DIJKSTRA C.D. *see* VAN DEN BERG T.K.
DÖPP E.A. *see* VAN DEN BERG T.K.
DRENTH J.P.H., GÖERTZ J., DAHA M.R. & VAN DER MEER J.W.M. Immunoglobulin D enhances the release of tumour necrosis factor-α and interleukin-1β as well as interleukin-1 receptor antagonist from human mononuclear cells, 355
DREYER-BUX C. *see* PAULY T.
DUDLER L. *see* CAHILL R.N.P.
DUGAS B. *see* DUGAS N.
DUGAS N., DUGAS B., KOLB J.-P., YAMAOKA K., DELFRAISS J.F. & DAMAIS C. Role of leukotriene B_4 in the intelerleukin-4-induced human mononuclear phagocyte activation, 384
DUNN-WALTERS D.K., ISAACSON P.G. & SPENCER J. Sequence analysis of rearranged IgV_H genes from microdissected human Peyer's patch marginal zone B cells, 618

EGUCHI K. *see* KITA M.
EKMAN R. *see* JOSEFSSON E.
EMOTO M., EMOTO Y. & KAUFMANN S.H.E. Development of $CD8\alpha/\beta^+$ TCR$\alpha\beta$ intestinal intraepithelial lymphocytes in athymic *nu/nu* mice and participation in regional immune responses, 531
EMOTO Y. *see* EMOTO M.
ENDRES J. *see* SINGER N.G.
ERIKSSON K., AHLFORS A., GEORGE-CHANDY A., KAISERLIAN D. & CZERINSKY C. Antigen presentation in the murine oral epithelium, 147
ESCLANGON M. *see* BOURRIÉ B.
ETO M. *see* OMOTO K.

FAGNONI F.F., VESCOVINI R., MAZZOLA M., BOLOGNA G., NIGRO E., LAVAGETTO G., FRANCESCHI C., PASSERI M. & SANSONI P. Expansion of cytotoxic $CD8^+$ $CD28^-$ T cells in healthy ageing people, including centenarians, 501
FEINSTEIN A. *see* SOHI M.K.
FERNIE B.A. *see* WÜRZNER R.
FINDLAY K. *see* HOCKETT R.D.
FOER A. *see* LIU L.
FORRESTER J.V. *see* MESRI M.
FOX D.A. *see* SINGER N.G.
FOX J.G., PERKINS S., YAN L., SHEN Z., ATTARDO L. & PAPPO J. Local immune response in *Helicobacter pylori*-infected cats and identification of *H. pylori* in saliva, gastric fluid and faeces, 400
FRANCESCHI C. *see* FAGNONI F.F.
FRELINGER J.A. *see* SERODY J.S.
FRIGON N.L. JR *see* YU J.
FU F. *see* QIAN S.
FUJISAWA H. *see* WANG B.
FUNG J.J. *see* QIAN S.

GADDUM R.M., COOK R.S., THOMAS L.H. & TAYLOR G. Primary cytotoxic T-cell responses to bovine respiratory syncytial virus in calves, 421
GALLI S.J. *see* MACDONALD A.J.
GAO J.-X. & ISSEKUTZ A.C. Mac-1 (CD11b/CD18) is the predominant β_2 (CD18) intergrin mediating human neutrophil migration through synovial and dermal fibroblast barriers, 463
GASQUE P. *see* ROGERS C.A.
GEARY S.M. & ASHMAN L.K. HL-60 myeloid leukaemia cells acquire immunostimulatory capability upon treatment with retinoic acid: analysis of the responding population and mechanism of cytotoxic lymphocyte activation, 428
GEORGE-CHANDY A. *see* ERIKSSON K.
GEORGIADES P., KIESZKIEWICZ J., ROZYCKA M., BRICKELL P.M. & LUND T. Coexpression of H2-Mb and H2-Ab genes during fetal and postnatal development, 447
GOLDBLATT D. *see* MCCLOSKEY N.
GORDON S. *see* KARSTEN V.
GOUBRAN BOTROS C., GREGOIRE C., RABILLON J., DAVID B. & DANDEU J.-P. Cross-antigenicity of horse serum albumin with dog and cat albumins: study of three short peptides with significant inhibitory activity towards specific human IgE and IgG antibodies, 340
GRABER P. *see* HENCHOZ-LECOANET S.
GREENWOOD J. *see* DEVINE L.
GREGOIRE C. *see* GOUBRAN BOTROS C.
GRIFFIN F. *see* HOOK S.
GÖERTZ J. *see* DRENTH J.P.H.

HACZKU A., MACARY P., HADDAD E.-B., HUANG T.J., KEMENY D.M., MOQBEL R. & CHUNG K.F. Expression of Th-2 cytokines in interleukin-4 and -5 and of Th-1 cytokine interferon-γ in ovalbumin-exposed sensitized Brown–Norway rats, 247
HADDAD E.-B. *see* HACZKU A.
HALE C., BARTHOLOMEW M., TAYLOR V., STABLES J., TOPLEY P. & TITE J. Recognition of CD52 allelic gene products by CAMPATH-1H antibodies, 183
HANADA N. *see* SENPUKU H.
HANBY-FLARIDA M.D., TRASK O.J., YANG T.J. & BALDWIN C.L. Modulation of WC1, a lineage-specific cell surface molecule of γ/δ T cells, augments cellular proliferation, 116
HARDING C.V. *see* HOCKETT R.D.
HARMER I.J., MAGEED R.A., KAMINSKI A., CHARLES P., BRÜGGEMAN M. & MACKWORTH-YOUNG C.G. Chimaeric monoclonal antibodies encoded by the human V_H26 gene from naive transgenic mice display a wide range of antigen-binding specificities, 174
HARRIS D.P., VORDERMEIER H.M., ARYA A., BOGDAN K., MORENO C. & IVANYI J. Immunogenenicity of peptides for B cells is not impaired by overlapping T-cell epitope topology, 348
HARVIMA I. *see* NILSSON G.
HASBOLD J. *see* VAN DEN BERG T.K.
HASHIMOTO W. *see* ANZAI R.
HASSAN I. *see* BORTHWICK N.J.
HAVERSON K. *see* WILSON A.D.
HE M. *see* SOHI M.K.
HELLMAN L. *see* NILSSON G.
HENCHOZ-LECOANET S., JEANNIN P., AUBRY J.-P., GRABER P., BRADSHAW C.G., POCHON S. & BONNEFOY J.-Y. The Epstein–Barr virus-binding site on CD21 is involved in CD23 binding and interleukin-4-induced IgE and IgG4 production in human B cells, 35
HERBEIN G. *see* KARSTEN V.
HERITAGE P.L., LOOMES L.M., JIANXIONG J., BROOK M.A., UNDERDOWN B.J. & MCDERMOTT M.R. Novel polymer-grafted starch microparticles for mucosal delivery of vaccines, 162
HIGASHIHARA M. *see* NAKAMURA T.
HILL A.V.S. *see* DAVENPORT M.P.
HIMENO K. *see* HISAEDA H.
HIRT W. *see* PAULY T.
HISAEDA H., SAKAI T., NAGASAWA H., ISHIKAWA H., YASUTOMO K., MAEKAWA Y. & HIMENO K. Contribution of extrathymic $\gamma\delta$ T cells to the expression of heat-shock protein and to protective immunity in mice infected with *Toxoplasma gondii*, 551
HOBART M.J. *see* WÜRZNER R.
HOCKETT R.D., COOK J.R., FINDLAY K. & HARDING C.V. Interferon-γ differentially regulates antigen-processing functions in distinct endocytic compartments of macrophages with constitutive expression of class II major histocompatibility complex molecules, 68

HOLERS V.M. *see* ROGERS C.A.
HOLMES B.J., DIAZ-SANCHEZ D., LAWRENCE R.A., BELL E.B., MAIZELS R.M. & KEMENY D.M. The contrasting effects of $CD8^+$ T cells on primary, established and *Nippostrongylus brasiliensis*-induced IgE responses, 252
HOLTER W. *see* PICKL W.F.
HOOK S., GRIFFIN F., MACKINTOSH C. & BUCHAN G. Activation of an interleukin-4 mRNA-producing population of peripheral blood mononuclear cells after infection with *Mycobacterium bovis* or vaccination with killed, but not live, BCG, 269
HOOPER F. *see* SINGER N.G.
HORIE S. *see* HOSSAIN M.
HOSSAIN M., OKUBO Y., HORIE S. & SEKIGUCHI M. Analysis of recombinant human tumour necrosis factor-α-induced CD4 expression on human eosinophils, 301
HOWARD C.J., SOPP P., BROWNLIE J., PARSONS K.R., KWONG L.-S. & COLLINS R.A. Afferent lymph veiled cells stimulate proliferative responses in allogeneic $CD4^+$ and $CD8^+$ T cells but not $\gamma\delta$ TCR^+ T cells, 558
HUANG T.J. *see* HACZKU A.

IGIETSEME J.U. Molecular mechanism of T-cell control of *Chlamydia* in mice: role of nitric oxide *in vivo*, 1
IIZIMA T. *see* SENPUKU H.
ISAACSON P.G. *see* DUNN-WALTERS D.K.
ISHIKAWA H. *see* HISAEDA H.
ISSEKUTZ A.C. *see* GAO J.-X.
ISSEKUTZ A.C., AYER L., MIYASAKA M. & ISSEKUTZ T.B. Treatment of established adjuvant arthritis in rats with monoclonal antibody to CD18 and very late activation antigen-4 integrins supresses neutrophil and T-lymphocyte migration to the joints and improves clinical disease, 569
ISSEKUTZ T.B. *see* ISSEKUTZ A.C.
ITO E. *see* MATSUZAKI Z.
ITO S. *see* YANG F.C.
IVANYI J. *see* HARRIS D.P.

JANOSSY G. *see* BORTHWICK N.J.
JEANNIN P. *see* HENCHOZ-LECOANET S.
JEFFERIS R. *see* SOHI M.K.
JEZIORSKA M. *see* BRADLEY K.
JIANXIONG J. *see* HERITAGE P.L.
JOHNSTON J.M. *see* BRETT S.
JOLICOEUR P. *see* LAMONTAGNE L.
JOSEFSSON E., BERQUIST J., EKMAN R. & TARKOWSKI A. Catecholamines are synthesized by mouse lymphocytes and regulate function of these cells by induction of apoptosis, 140

KAISERLIAN D. *see* ERIKSSON K.
KAMINSKI A. *see* HARMER I.J.
KARSTEN V., GORDON S., KIRN A. & HERBEIN G. HIV-1 envelope glycoprotein gp 120 down-regulates CD4 expression in primary human macrophages through destruction of endogenous tumour necrosis factor-α, 55
KAUFMANN S.H.E. *see* EMOTO M.
KAWABE Y. *see* KITA M.
KAWAKAMI A. *see* KITA M.
KAWAKAMI T. *see* NAKAMURA T.
KAWANO Y. & NOMA T. Role of interleukin-2 and interferon-γ in inducing production of IgG subclasses in lymphocytes of human newborns, 40
KEMENY D.M. *see* HACZKU A.
see also HOLMES B.J.
KIESZKIEWICZ J. *see* GEORGIADES P.
KIMPTON W.G. *see* CAHILL R.N.P.
KIRKHAM P.A. *see* YANG H.
KIRN A. *see* KARSTEN V.
KITA M., EGUCHI K., KAWABE Y., TSUKADA T., MIGITA K., KAWAKAMI A., MATSUOKA N. & NAGATAKI S. Staphylococcal enterotoxin B-specific adhesion of murine splenic T cells to a human endothelial cell line, 441
KLAUS G.G.B. *see* VAN DEN BERG T.K.
KNAPP W. *see* PICKL W.F.
KOBATA T. *see* YANG F.C.
KOHANAWA M. *see* ASANO M.
KOLB J.-P. *see* DUGAS N.
KOMAI-KOMA M. & WILKINSON P.C. Chemotaxis of human B lymphocytes to anti-IgD, 600
KOMIYAMA A. *see* YANG F.C.
KONDO S. *see* WANG B.
KONDO T. *see* UENO A.
KONG Y.-Y. *see* OMOTO K.
KOYAMA M. *see* NAKAMURA T.
KRAAL G. *see* CLAESSEN A.M.E.
KRUGER M., VAN GOOL S., PENG X.H., COOREVITS L., CASTEELS-VAN DAELE M. & CEUPPENS J.L. Production of granulocyte–macrophage colony-stimulating factor by T cells is regulated by B7 and IL-1β, 49
KUMAGAI K. *see* ANZAI R.
KURLANDER R.J. *see* SERODY J.S.
KUROKAWA K. *see* NAKAMURA T.
KUSCHE-GULLBERG M. *see* NILSSON G.
KWONG L.-S. *see* HOWARD C.J.

LACHMANN P.J. *see* WÜRZNER R.
LAMONTAGNE L., JOLICOEUR P., DECARIE D. & MENEZES J. Effect of adoptive transfer of CD4, CD8 and B cells on recovery from MHV3-induced immunodeficiencies, 220
LANDSVERK T. *see* PRESS MCL.C.
LAVAGETTO G. *see* FAGNONI F.F.
LAWRENCE R.A. *see* HOLMES B.J.
LE FUR G. *see* BOURRIÉ B.
LI Y. *see* QIAN S.
LI Z.-G., WU W.-P. & MANOLIOS N. Stuctural mutations in the constant region of the T-cell antigen receptor (TCR) β chain and their effect on TCRα and β chain interaction, 524
LIALIOS F. *see* SINGER N.G.
LIGHTMAN S.L. *see* DEVINE L.
LIU L., FOER A., SESTERHENN J. & REINHOLD U. CD2-mediated stimulation of the naive $CD4^+$ T-cell subset promotes the development of skin-associated cutaneous lymphocyte antigen-positive memory cells, 207
LIVERSIDGE J. *see* MESRI M.
LOBO P.I., YANG M.Y. & MELLINS E. Mechanisms by which HLA-class II molecules protect human B lymphoid tumour cells against NK- and LAK-mediated cytolysis, 625
LOFGREN J. *see* YU J.
LOOMES L.M. *see* HERITAGE P.L.
LU L. *see* QIAN S.
LUND T. *see* GEORGIADES P.

MACARY P. *see* HACZKU A.
MACDONALD A.J., THORNTON E.M., NEWLANDS G.F.J., GALLI S.J., MOQBEL R. & MILLER H.R.P. Rat bone marrow-derived mast cells co-cultured with 3T3 fibroblasts in the absence of T-cell derived cytokines require stem cell factor for their survival and maintain their mucosal mast cell-like phenotype, 375
MACKINTOSH C. *see* HOOK S.
MACKWORTH-YOUNG C.G. *see* HARMER I.J.
MADDY A. *see* DICK S.
MAEKAWA Y. *see* HISAEDA H.
MAGEED R.A. *see* HARMER I.J.
MAINI R.N. *see* TAYLOR P.C.
MAIZELS R.M. *see* HOLMES B.J.
MAJDIC O. *see* PICKL W.F.
MAK T.W. *see* WANG B.
MANOLIOS N. *see* LI Z.-G..
MATSUOKA N. *see* KITA M.
MATSUZAKI G. *see* TAKADA H.
MATSUZAKI Z., OKAMOTO Y., SARASHINA N., ITO E., TOGAWA K. & SAITO I. Induction of intercellular adhesion molecule-1 in human nasal epithlial cells during respiratory syncytial virus infection, 565
MAURER S. *see* PAULY T.
MAW W.W. *see* TOMIOKA H.
MAZZOLA M. *see* FAGNONI F.F.

MCCLOSKEY N., TURNER M.W., STEFFNER P., OWENS R. & GOLDBLATT D. Human constant regions influence the antibody binding characteristics of mouse–human chimeric IgG subclasses, 169
MCCLURE S.J. *see* PRESS MCL.C.
MCDERMOTT M.R. *see* HERITAGE P.L.
MEDINA E., RODGERSON B.J. & NORTH R.J. The *Nramp1* antimicrobial resistance gene segregates independently of resistance to virulent *Mycobacterium tuberculosis*, 479
MELLINS E. *see* LOBO P.I.
MENEZES J. *see* LAMONTAGNE L.
MESRI M., LIVERSIDGE J. & FORRESTER J.V. Prostaglandin E_2 and monoclonal antibody to lymphocyte function-associated antigen-1 differentially inhibit migration of T lymphocytes across microvascular retinal endothelial cells in rat, 471
MIGITA K. *see* KITA M.
MILLER H.R.P. *see* MACDONALD A.J.
MINAGAWA T. *see* ASANO M.
MITCHISON N.A. *see* BRUNNER M.C.
MIYASAKA M. *see* ISSEKUTZ A.C.
MOLLER D.R. *see* SILVER R.F.
MOQBEL R. *see* HACZKU A.
see also MACDONALD A.J.
MORENO C. *see* HARRIS D.P.
see also ROMÁN E.
MORGAN B.P. *see* ROGERS C.A.
MORI T. *see* YANG F.C.
MORIMOTO C. *see* YANG F.C.
MUGGENBURG B.A. *see* BICE D.E.
MULLER H.K. *see* WOODS G.M.
MURAKAMI K. *see* UENO A.
MURAKAMI Y. *see* OMOTO K.

NAGASAWA H. *see* HISAEDA H.
NAGATA S. *see* SENPUKU H.
NAGATAKI S. *see* KITA M.
NAKAMURA T., KOYAMA M., YONEYAMA A., HIGASHIHARA M., KAWAKAMI T., YAMAMURA H., SADA K., OKAMURA K. & KUROKAWA K. Signal transduction through $\mu\kappa$ B-cell receptors expressed on pre-B cells is different from that through B-cell receptors on mature B cells, 593
NAKANE A. *see* ASANO M.
NAKAZAWA T. *see* YANG F.C.
NARAPARAJU V.R. *see* YAMAMOTO N.
NEWLANDS G.F.J. *see* MACDONALD A.J.
NIGRO E. *see* FAGNONI F.F.
NIKOLOVA E.B. *see* WU H.-Y.
NILSSON G., BLOM T., HARVIMA I., KUSCHE-GULLBERG M., NILSSON K. & HELLMAN L. Stem cell factor-dependent human cord blood derived mast cells express α- and β-tryptase, heparin and chrondroitin sulphate, 308
NILSSON K. *see* NILSSON G.
NISIZAWA T. *see* SENPUKU H.
NOMA T. *see* KAWANO Y.
NOMOTO K. *see* OMOTO K.
see also TAKADA H.
NORTH J. *see* BRADLEY K.
NORTH R.J. *see* MEDINA E.

OGASAWARA K. *see* ANZAI R.
OKADA N. *see* ROGERS C.A.
OKAMOTO Y. *see* MATSUZAKI Z.
OKAMURA K. *see* NAKAMURA T.
OKUBO Y. *see* HOSSAIN M.
OLSEN H.M., PARISH C.R. & ALTIN J.G. Histidine-rich glycoprotein binding to T-cell lines and its effect on T-cell substratum adhesion is strongly potentiated by zinc, 198
OMOTO K., KONG Y.-Y., NOMOTO K., UMESUE M., MURAKAMI Y., ETO M. & NOMOTO K. Sensitization of T-cell receptor-$\alpha\beta^+$ T cells recovered from long-term T-cell receptor downmodulation, 230
ORREN A. *see* WÜRZNER R.
OTTEN H.G., BOR B., VERVERS C., VERDONCK L.F., DE BOER M. & DE GAST G.C. Alloantigen-specific T-cell anergy induced by human keratinocytes is abrogated upon loss of cell–cell contact, 214
OURA C.A. *see* YANG H.
OWENS R. *see* MCCLOSKEY N.

PANAYIOTIDIS P. *see* BORTHWICK N.J.
PAPPO J. *see* FOX J.G.
PARISH C.R. *see* OLSEN H.M.
PARKHOUSE R.M.E. *see* YANG H.
PARSONS K.R. *see* HOWARD C.J.
PASSERI M. *see* FAGNONI F.F.
PAULY T., WEILAND E., HIRT W., DREYER-BUX C., MAURER S., SUMMERFIELD A. & SAALMÜLLER A. Differentiation between MHC-restricted and non-MHC-restricted porcine cytolytic T lymphocytes, 238
PENG X.H. *see* KRUGER M.
PEREVERZEV A.I. *see* WÜRZNER R.
PERKINS S. *see* FOX J.G.
PERLMANN P. *see* AHLBORG N.
PICKL W.F., HOLTER W., STÖCKL J., MAJDIC O. & KNAPP W. Expression of β_2-microglobulin-free HLA class I α-chains on activated T cells requires internalization of HLA class I heterodimers, 104
PIDDLESDEN S.J. *see* ROGERS C.A.
PISELLI P. *see* POCCIA F.
PLACIDO R. *see* POCCIA F.
PLATER-ZYBERK C. *see* TAYLOR P.C.
PLATONOV A.E. *see* WÜRZNER R.
POCCIA F., PISELLI P., VENDETTI S., BACH S., AMENDOLA A., PLACIDO R. & COLIZZI V. Heat-shock protein expression on the membrane of T cells undergoing apoptosis, 6
POCHON S. *see* HENCHOZ-LECOANET S.
POSTON R.M. *see* SERODY J.S.
POWERS D. *see* SINGER N.G.
PRESS MCL.C., REYNOLDS J.D., MCCLURE S.J., SIMPSON-MORGAN M.W. & LANDSVERK T. Fetal lambs are depleted of IgM^+ cells following a single injection of an anti-IgM antibody early in gestation, 28
PRINCE G.A. *see* COE J.E.

QIAN S., FU F., LI Y., LU L., RAO A.S., STARZL T.E., THOMSON A.W. & FUNG J.J. Impact of donor MHC class I or class II antigen deficiency on first- and second-set rejection of mouse heart or liver allografts, 124
QU M. *see* WOODS G.M.
QUINN C.L. *see* DAVENPORT M.P.

RABILLON J. *see* GOUBRAN BOTROS C.
RAGG S.J. *see* WOODS G.M.
RAO A.S. *see* QIAN S.
RAO N.K. *see* WONG W.S.F.
RAPSON N. *see* BRETT S.
ŘEHÁKOVÁ Z. *see* CUKROWSKA B.
REINHOLD U. *see* LIU L.
RENARDEL DE LAVALETTE C. *see* VAN DEN BERG T.K.
REYNOLDS J.D. *see* PRESS MCL.C.
RICHARDSON B.C. *see* SINGER N.G.
RIGGS J. & STOWERS R. Ability of spleen, peritoneal cavity, and lymph node B cells to reconstitute serum immunoglobulin in SCID mice, 20
RILEY E. *see* DICK S.
RODGERSON B.J. *see* MEDINA E.
ROGERS C.A., GASQUE P., PIDDLESDEN S.J., OKADA N., HOLERS V.M. & MORGAN B.P. Expression and function of membrane regulators of complement on rat astrocytes in culture, 153
ROLLO E.E. & DENHARDT D.T. Differential effects of osteopontin on the cytotoxic activity of macrophages from young and old mice, 642
ROMÁN E. & MORENO C. Synthetic peptides non-covalently bound to bacterial hsp 70 elicit peptide-specific T-cell responses *in vivo*, 487

ROSOFF P.M. *see* WONG W.S.F.
ROZYCKA M. *see* GEORGIADES P.
RUSSELL M.W. *see* WU H.-Y.

SAALMÜLLER A. *see* CUKROWSKA B.
see also PAULY T.
SADA K. *see* NAKAMURA T.
SAITO H. *see* TOMIOKA H.
SAITO I. *see* MATSUZAKI Z.
SAITO M. *see* SENPUKU H.
SAKAI T. *see* HISAEDA H.
SALMON M. *see* BORTHWICK N.J.
SALVADORI F. & TOURNEFIER A. Activation by mitogens and superantigens of axolotl lymphocytes: functional characterization and ontogenic study, 586
SANSONI P. *see* FAGNONI F.F.
SARASHINA N. *see* MATSUZAKI Z.
SATO K. *see* TOMIOKA H.
SATO M. *see* ANZAI R.
SAUDER D.N. *see* WANG B.
SAUNDERS D. *see* BRADLEY K.
SCHEPER R.J. *see* CLAESSEN A.M.E.
SCHWAEBLE W. *see* BRADLEY K.
SCHWALL R. *see* YU J.
SEKI S. *see* ANZAI R.
SEKIGUCHI M. *see* HOSSAIN M.
SENPUKU H., IIZIMA T., YAMAGUCHI Y., NAGATA S., UENO Y., SAITO M., HANADA N. & NISIZAWA T. Immunogenicity of peptides coupled with multiple T-cell epitopes of a surface protein antigen of *Streptococcus mutans*, 275
SERODY J.S., POSTON R.M., WEINSTOCK D., KURLANDER R.J. & FRELINGER J.A. $CD4^+$ cytolytic effectors are inefficient in the clearance of *Listeria monocytogenes*, 544
SESTERHENN J. *see* LIU L.
SHAO L.-E. *see* YU J.
SHEN Z. *see* FOX J.G.
SHIVJI G.M. *see* WANG B.
SILVER R.F., CRYSTAL R.G. & MOLLER D.R. Limited heterogeneity of biased T-cell receptor Vβ gene usage in lung but not blood T cells in active pulmonary sarcoidosis, 516
SIMON D.I. *see* WONG W.S.F.
SIMPSON-MORGAN M.W. *see* PRESS MCL.C.
SINGER N.G., RICHARDSON B.C., POWERS D., HOOPER F., LIALIOS F., ENDRES J., BOTT C.M. & FOX D.A. Role of the CD6 glycoprotein in antigen-specific and autoreactive responses of cloned human T lymphocytes, 537
SINIGAGLIA F. *see* DAVENPORT M.P.
ŠINKORA J. *see* CUKROWSKA B.
ŠINKORA M. *see* CUKROWSKA B.
SOHI M.K., CORPER A.L., WAN T., STEINITZ M., JEFFERIS R., BEALE D., HE M., FEINSTEIN A., SUTTON B.J. & TAUSSIG M.J. Crystallization of a complex between the Fab fragment of a human immunoglobulin M (IgM) rheumatoid factor (RF–AN) and the Fc fragment of human IgG4, 636
SOPP P. *see* HOWARD C.J.
SOUTHGATE K. *see* WILSON A.D.
SPENCER J. *see* DUNN-WALTERS D.K.
ŠPLÍCHAL I. *see* CUKROWSKA B.
STABLES J. *see* HALE C.
STARZL T.E. *see* QIAN S.
STEFFNER P. *see* MCCLOSKEY N.
STEINITZ M. *see* SOHI M.K.
STÖCKL J. *see* PICKL W.F.
STOKES C.R. *see* WILSON A.D.
STOWERS R. *see* RIGGS J.
SUGIURA K. *see* ANZAI R.
SUMICHIKA H. *see* TAKADA H.
SUMMERFIELD A. *see* PAULY T.
SUN J. & BUTLER J.E. Molecular characterization of VDJ transcripts from a newborn piglet, 331
SUTTON B.J. *see* SOHI M.K.

TAKADA H., MATSUZAKI G., YOSHIDA H., SUMICHIKA H. & NOMOTO K. Functional difference between Thy-1-positive and Thy-1-negative $\gamma\delta$ T cells induced by *Escherichia coli* infection in mice, 261
TAKEDA K. *see* ANZAI R.
TARKOWSKI A. *see* JOSEFSSON E.
TAUSSIG M.J. *see* SOHI M.K.
TAYLOR G. *see* GADDUM R.M.
TAYLOR P.C., CHU C.Q., PLATER-ZYBERK C. & MAINI R.N. Transfer of type II collagen-induced arthritis from DBA/1 to severe combined immunodeficiency mice can be prevented by blockade of Mac-1, 315
TAYLOR V. *see* HALE C.
THOMAS C. *see* BOURRIÉ B.
THOMAS L.H. *see* GADDUM R.M.
THOMSON A.W. *see* QIAN S.
THORNTON E.M. *see* MACDONALD A.J.
TITE J. *see* BRETT S.
see also HALE C.
TLASKALOVÁ-HOGENOVÁ H. *see* CUKROWSKA B.
TOGAWA K. *see* MATSUZAKI Z.
TOMIOKA H., MAW W.W., SATO K. & SAITO H. The role of tumour necrosis factor-α in combination with interferon-γ or interleukin-1 in the induction of immunosuppressive macrophages because of *Mycobacterium avium* complex infection, 61
TOPLEY P. *see* HALE C.
TOURNEFIER A. *see* SALVADORI F.
TRASK O.J. *see* HANBY-FLARIDA M.D.
TRNKA Z. *see* CAHILL R.N.P.
TSUKADA T. *see* KITA M.
TUČKOVÁ L. *see* CUKROWSKA B.
TURNER M.W. *see* MCCLOSKEY N.

UENO A., MURAKAMI K., YAMANOUCHI K., WATANABE M. & KONDO T. Thrombin stimulates production of interleukin-8 in human umbilical vein endothelial cells, 76
UENO Y. *see* SENPUKU H.
UMESUE M. *see* OMOTO K.
UNDERDOWN B.J. *see* HERITAGE P.L.

VALSASNINI P. *see* DAVENPORT M.P.
VAN DEN BERG T.K., HASBOLD J., RENARDEL DE LAVALETTE C., DÖPP E.A., DIJKSTRA C.D. & KLAUS G.G.B. Properties of mouse CD40: differential expression of CD40 epitopes on dendritic cells and epithelial cells, 294
VAN DER MEER J.W.M. *see* DRENTH J.P.H.
VAN GOOL S. *see* KRUGER M.
VENDETTI S. *see* POCCIA F.
VERDONCK L.F. *see* OTTEN H.G.
VERSHININA I.V. *see* WÜRZNER R.
VERVERS C. *see* OTTEN H.G.
VESCOVINI R. *see* FAGNONI F.F.
VEZZIO N. *see* DEMEURE C.E.
VON BLOMBERG B.M.E. *see* CLAESSEN A.M.E.
VORDERMEIER H.M. *see* HARRIS D.P.

WAN T. *see* SOHI M.K.
WANG B., KONDO S., SHIVJI G.M., FUJISAWA H., MAK T.W. & SAUDER D.N. Tumour necrosis factor receptor II (p75) signalling is required for the migration of Langerhans' cells, 284
WASHINGTON E.A. *see* CAHILL R.N.P.
WATANABE M. *see* UENO A.
WATERFALL M. *see* DICK S.
WEILAND E. *see* PAULY T.
WEINSTOCK D. *see* SERODY J.S.
WHALEY K. *see* BRADLEY K.
WILKINSON P.C. *see* KOMAI-KOMA M.
WILSON A.D., HAVERSON K., SOUTHGATE K., BLAND P.W., STOKES C.R. & BAILEY M. Expression of major histocompatibility complex class II antigens on normal porcine intestinal endothelium, 98
WOLVERS D.A.E. *see* CLAESSEN A.M.E.

WONG W.S.F., SIMON D.I., ROSOFF P.M., RAO N.K. & CHAPMAN H.A. Mechanisms of pertussis toxin-induced myelomonocytic cell adhesion: role of Mac-1 (CD11b/CD18) and urokinase receptor (CD87), 90
WOODS G.M., QU M., RAGG S.J. & MULLER H.K. Chemical carcinogens and antigens induce immune suppression via Langerhans' cell depletion, 134
WOOLLEY D.E. *see* BRADLEY K.
WU H.-Y., NIKOLOVA E.B., BEAGLEY K.W. & RUSSELL M.W. Induction of antibody-secreting cells and T-helper and memory cells in murine nasal lymphoid tissue, 493
WU W.-P. *see* LI Z.-G..
WÜRZNER R., PLATONOV A.E., BELOBORODOV V.B., PEREVERZEV A.I., VERSHININA I.V., FERNIE B.A., HOBART M.J., LACHMANN P.J. & ORREN A. How partial C7 deficiency with chronic and recurrent bacterial infections can mimic total C7 deficiency: temporary restoration of host C7 levels following plasma transfusion, 407

YAMAGUCHI Y. *see* SENPUKU H.
YAMAMOTO N. & NARAPARAJU V.R. A defect in inducible β-galactosidase of B lymphocytes in the osteopetrotic *(mi/mi)* mouse, 604
YAMAMURA H. *see* NAKAMURA T.
YAMANOUCHI K. *see* UENO A.
YAMAOKA K. *see* DUGAS N.
YAN L. *see* FOX J.G.
YANG F.C., AGEMATSU K., NAKAZAWA T., MORI T., ITO S., KOBATA T., MORIMOTO C. & KOMIYAMA A. CD27/CD70 interaction directly induces natural killer cell killing activity, 289
YANG H., OURA C.A., KIRKHAM P.A. & PARKHOUSE R.M.E. Preparation of monoclonal anti-porcine CD3 antibodies and preliminary characterization of porcine T lymphocytes, 577
YANG L.P. *see* DEMEURE C.E.
YANG M.Y. *see* LOBO P.I.
YANG T.J. *see* HANBY-FLARIDA M.D.
YASUTOMO K. *see* HISAEDA H.
YONEYAMA A. *see* NAKAMURA T.
YOSHIDA H. *see* TAKADA H.
YU J., SHAO L.E., FRIGON N.L. JR, LOFGREN J. & SCHWALL R. Induced expression of the new cytokine, activin A, in human monocytes: inhibition by glucocorticoids and retinoic acid, 368

Subject Index

Activin A:
  expression induced in human monocytes, 368
Adhesion molecules:
  role in lymphocyte migration across retinal pigment epithelial monlayers, 456
Adhesion, T cell:
  effect of histidine-rich glycoprotein binding on, 198
Airway hyperresponsiveness:
  cytokine profiles, 247
Albumins:
  cross-allergenicity and antigenicity, 340
Anergy, T cell:
  alloantigen specific, 214
Antigen presentation:
  in murine oral epithelium, 147
Apoptosis CD8:
  during viral infection, 508
Apoptosis:
  and heat-shock protein expression, 6
  induced by catecholamines, 140
Arthritis, collagen induced:
  and blockade of Mac-1, 315
Avidity, human IgG subclass:
  influence of constant regimes, 169

B cells, marginal zone:
  in human Peyer's patch, 618

C7 deficiency, partial:
  mimicking of total C7 defiency, 407
CD3, pig:
  monoclonal antibodies to, 577
CD4 expression:
  on human eosinophils, 301
$CD4^+$ cytolytic effectors:
  and clearance of *Listeria monocytogenes*, 544
CD6 glycoprotein:
  role in cloned human T-cell responses, 537
CD6:
  porcine, 238
$CD8^+$ T-cell deletion:
  effect on IgE responses, 252
CD28 negative T cells:
  in ageing, 501
CD31:
  and maturation of $CD4^+$ T cells, 110
CD40, mouse:
  expression on dendritic and epithelial cells, 294
CD52 allelic products:
  recognition by CAMPATH-1H, 183
Cell adhesion, pertussis induced:
  role of CD11b/CD18 and CD87, 90
Chemotaxis:
  of human B lymphocytes to anti-IgD, 600
Chimaeric antibodies:
  antigen-binding specificities, 174
Class II major histocompatibility complex H2-Mb and H2-Ab genes:
  expression during fetal and post-natal development, 447
Complement components, classical:
  synthesis by chondrocytes, 648
Complement:
  membrane regulators on rat astrocytes, 153
Cytotoxic T-cell responses, to bovine syncytial virus:
  in calves, 421

Epstein–Barr virus binding site on CD21:
  role in CD23 binding and immunoglobulin production, 35

Granulocyte–macrophage colony-stimulating factor production:
  regulated by B7 and IL-1β, 49
Gut-homing T cells:
  extra-thymic generation of, 130

Helicobacter pylori:
  local immune response to, 400
Hepatitis virus, mouse, immunodeficiency induced by:
  effects of adoptive transfer of lymphocytes, 220
HIV-1 gp 120:
  modulation of CD4, 55
HLA DR13 motifs:
  analysis using M13 phage display peptide library, 482

IgD:
  enhancement of cytokine secretion by mononuclear cells, 355
IgG subclasses, in human newborns:
  role of interferon-γ and interleukin-2, 40
IgM^+ cells:
  in fetal lambs, 28
Interleukin-4 producing peripheral blood mononuclear cells:
  after infection with *Mycobacterium bovis* or killed bacillus Calmette–Guérin, 269
Immunoglobulins:
  cotton rat, 323
  in fetal and germ-free piglets, 611
Intercellular adhesion molecule-1, in nasal epithelial cells:
  during respiratory syncytial virus infection, 565
Interferon-γ and interleukin-4:
  regulation of granulomas, 394
Interferon-γ:
  regulation of antigen processing, 68
Interleukin-8:
  production stimulated by thrombin, 76
Interleukin-12:
  induction of cytotoxic natural killer 1^+ $\alpha\beta$ T cells, 82
Intraepithelial, $CD8^+$ α/β TCRα/β lymphocytes:
  in *nu/nu* mice, 531

Langerhans' cells:
  depletion by antigens and carcinogens, 134
Leukotriene:
  role in interleukin-4-induced monocyte activation, 384
Lymphocyte activation:
  axolotl, 586

Major histocompatibility complex antigen deficiency, donor:
  effect on allograft rejection, 124
Major histocompatibility complex class II expression:
  on porcine intestinal epithelium, 98
Major histocompatibility complex class II molecules:
  and natural killer and lymphokine-activated killer-mediated cytolysis, 625
Mast cells, human:
  expression of α- and β-tryptase, heparin and chondroitin sulphate, 308
Mast cells, mucosal:
  and stem-cell factor, 375
β_2-microglobulin-free human leucocyte antigen-class I α-chains:
  expression on activated T cells, 104
Microparticles, starch:
  mucosal immunization with, 162
Mucosal tolerance:
  reversal by interleukin-12, 363
Multiple antigenic peptides malaria Pf332 antigen:
  immune responses to, 630

Myeloid leukaemia cells (HL-60), retinoic-acid treated:
immunostimulatory capacity, 428

Nasal-associated lymphoid tissue, mouse:
induction of cellular responses, 493
Natural killer cell killing:
induction by CD27/CD70 interaction, 289
Neutrophil and lymphocyte migration:
in adjuvant arthritis, 569
Neutrophil migration:
role of Mac-1, 463
Nitric oxide:
role in control of *Chlamydia* infection, 1
Non-major histocompatibility complex gene regulation of allo-4-hydroxy-phenylpyruvate dioxygenase response, 452
Nramp1 resistance gene:
segregation, 479

Osteopetrotic mice:
defect in β-galactosidase, 604
Osteopontin:
effects on macrophages, 642

Peptides, coupled with multiple T-cell epitopes:
immunogenicity of, 275
Peptides, synthetic, bound to heat-shock protein 70:
T-cell responses to, 487
Peptides:
immunogenicity for B cells, 348
Pulmonary immune memory:
localized antibody production, 191

Repopulation, lymphocytes:
in rheumatoid arthritis patients treated with CAMPATH-1H, 13
Rheumatoid factor, IgG Fc complex:
crystallization, 636

SCID mice:
immunoglobulin reconstitution, 20
Sigma ligand:
modulation of Staphylococcal enterotoxin B-induced cytokine production, 389
Signal transduction:
through $\mu\kappa$ B-cell receptors, 593
Staphylococcal enterotoxin B adhesion of T cells:
to endothelial cells, 441

T-cell receptor $\alpha\beta^+$ cells, downregulated:
sensitization, 230
T-cell receptor clonotypic chain reactions, 524
T-cell receptor:
Vβ usage in sarcoidosis, 516
T-cell responses, naive:
to malaria schizonts, 412
T-cells, skin associated:
development of, 207
$\gamma\delta$ T cells and heat-shock protein 65 in murine toxoplasmosis, 551
$\gamma\delta$ T cells:
induced by *Escherichia coli*, 261
modulation of WC1, 116
T-lymphocyte migration:
inhibition by prostaglandin E_2 and anti-lymphocyte function-associated antigen-1, 471
Tumour necrosis factor receptor II signalling:
and Langerhans' cell migration, 284
Tumour necrosis factor-α:
role in induction of suppressor macrophages, 61

VDJ transcripts, newborn piglet:
characterization, 331
Veiled cells, afferent lymph:
stimulation of proliferation in allogeneic $CD4^+$ and $CD8^+$ T cells but not $\gamma\delta$ T cells, 558